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(54) CHEMICAL TREATMENT PROCESS FOR TIMBER

(57) Abstract

PURPOSE: To provide flame retardance and enhance dimension stability, hardness and prevention of cracks by impregnating a timber with water-soluble radical polymerized compound water solution essentially containing water-soluble radical polymerized organic acid metal salt and polymerizing the same under the state of water retention.

CONSTITUTION: A timber is impregnated with water solution composed of radical polymerized organic acid metal salt water solution in which another water

solution radical polymerized compound is mixed, and then heated and polymerized in the state that the water content is scattered over as little as possible. A high molecular compound is modified in the timber by said process and also filled into the spaces of the timber to have water-insoluble organic acid metal polymer contained in the timber and provides flame retardance for the timber. Further, performances such as flame retardance and the like are retained for a long time by being impregnated with water solution inorganic acid salt group.

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A - [001] 014 028 03- 034 04- 06- 074 075 076 08- 10- 130 133 135 137 147
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AB - J01196302 Method comprises impregnating woody material with an aq.
soln. of (A) water-sol. and radically polymerisable cpds. contg. (B)
water-sol. and radically polymerisable metal salts of organic acids
and polymerising under water-retaining conditions. The impregnated
woody material is pref. further impregnated with water-sol. salts of
inorganic acids. (B) is pref. e.g. acrylate of Zn, Ba, Ca, Mg or Al.
(A) is pref. e.g. glycerin di(meth)acrylate, trimethylolpropane
di(meth)acrylate, trimethylolpropane triacrylate, polyethylene glycol
mono(meth)acrylate or polyethyleneglycol di(meth)acrylate).
- ADVANTAGE - The chemical treated woody material has good durability,
flame resistance, hardness, dimensional stability, rot resistance, and
insect resistance.(0/0)

DRL - 1704-X 1711-X 1714-X 1724-X 8929-0

IW - CHEMICAL TREAT WOOD IMPREGNATE WATER SOL RADICAL POLYMERISE COMPOUND
CONTAIN ORGANIC METAL SALT POLYMERISE

IKW - CHEMICAL TREAT WOOD IMPREGNATE WATER SOL RADICAL POLYMERISE COMPOUND
CONTAIN ORGANIC METAL SALT POLYMERISE

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PAW - (DKEN) DAIKEN KOGYO KK

TI - Chemical treatment of wood - by impregnating with water-sol. and

radically polymerisable cpds. contg. organic metal salts and
polymerising